

# On site Activities (*preliminary*) Program

Conference Hotel  
Conference Venue Location  
Conference will be mixed online and on location at

Mercure Lisboa  
Av Jose Malhoa 23  
1099-051 Lisboa  
Portugal

Updated as of February 3rd, 2025.

The program will be continuously updated.

InfoSys 2025: <https://www.iaria.org/conferences2025/ProgramICNS25.html>

InfoWare 2025: <https://www.iaria.org/conferences2025/ProgramINTERNET25.html>

Timezone converter: <https://www.worldtimebuddy.com/>

Time slots	Activity
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## Sunday, March 9

10:30am	<b>Registration starts</b> The registration desk is located in front of the conference rooms. The reception is operating during the entire conference.
12:15 - 12:30	<b>Opening session</b>
12:30 - 13:30	<b>Tutorial I</b> Multimedia Forensics: From Statistical Signal Processing to Deep Learning and Explainable Artificial Intelligence <b>Lecturer</b> Prof. Dr. Konstantinos (Constantine) Kotropoulos, Aristotle University of Thessaloniki, Greece <b>Chair</b> Malcolm Crowe
13:30 - 13:45	<b>Break</b>
13:45 - 14:45	<b>Tutorial II</b> Patterns of the Past: Exploring Art and Architecture Through Visual Intelligence <b>Lecturers</b> Prof. Dr. Sugata Banerji, Lake Forest College, IL, USA Prof. Dr. Atreyee Sinha, Edgewood College, WI, USA <b>Chair</b> Konstantinos (Constantine) Kotropoulos
14:45 - 15:00	<b>Coffee Break</b>

15:00 - 16:00	<p align="center"><b>Tutorial III</b> On the Graph Query Language <b>Lecturers</b> Emeritus Prof. Dr. Malcolm Crowe, University of the West of Scotland, UK Emeritus Prof. Dr. Fritz Laux, Reutlingen University, Germany <b>Chair</b> Atreyee Sinha</p>
16:00 - 16:15	<b>Break</b>
16:15 - 17:15	<p align="center"><b>Keynote Speech</b> Multimodal Data Collection and Processing for Modeling Forest Fires using Machine Learning Techniques <b>Speaker</b> Prof. Dr. Sagar Naik, University of Ottawa, Canada <b>Chair</b> Fritz Laux</p>
17:15 - 17:30	<b>Break</b>
17:30 - 18:30	<b>TBD</b>
18:30 - 20:00	<b>Welcome Cocktail</b>

**Monday, March 10**

09:00 - 10:00	<p align="center"><b>Keynote Speech</b> General, Learned, and Verified: What the Future of Learning Agents in Power Grids Could Be <b>Speaker</b> Dr. Ing. Eric MSP Veith, OFFIS, Germany <b>Chair</b> Michael Negnevitsky</p>
10:00 - 10:15	<b>Break</b>
10:15 - 11:45	<b>Session 1 [DBKDA I]</b>
11:45 - 12:00	<b>Coffee break</b>
12:00 - 13:00	<p align="center"><b>Keynote Speech</b> Smart Grids Management and Control: A New Approach to Integrating Isolated Power Systems <b>Speaker</b> Prof. Dr. Michael Negnevitsky, University of Tasmania, Australia <b>Chair</b> Eric MSP Veith</p>
13:00 - 14:00	Lunch on your own
14:00 - 15:45	<b>Session 2 [IFSEAI I]</b>
15:45 - 16:15	<b>Break</b>
16:15 - 18:00	<b>Session 3 [IFSEAI II]</b>
18:00 - 18:15	<b>Coffee Break</b>
18:15 - 19:45	<p align="center"><b>Panel #1</b> <b>Theme:</b> Data, Social Media and Trust Moderator:  <b>Panelists</b> <b>TBD</b></p>

## Tuesday, March 11

09:00 - 10:00	<p align="center"><b>Keynote Speech</b>            Crossroads of AI, Philosophy, and Abstraction  <b>Speaker</b>            Prof. Dr. Fernanda Elliott, Grinnell College, USA  <b>Chair</b>            Claudius Stern</p>	
10:00 - 10:15	<b>Break</b>	
10:15 - 11:45	<b>Session 4 [DBKDA II]</b>	<b>Session 13 [ISME]</b>
11:45 - 12:00	<b>Coffee break</b>	
12:00 - 13:00	<p align="center"><b>Keynote Speech</b>            Containers, Continuous Integration, and Cyber-Physical Systems: A Modern Development Paradigm  <b>Speaker</b>            Prof. Dr. Claudius Stern, FOM University of Applied Sciences - Essen, Germany  <b>Chair</b>            Fernanda Elliott</p>	
13:00 - 14:00	Lunch on your own	
14:00 - 15:45	<b>Session 5 [INTERNET]</b>	<b>Session 14 [SIGNAL I]</b>
15:45 - 16:15	<b>Break</b>	
16:15 - 18:00	<b>Session 6 [ENERGY I]</b>	<b>Session 15 [SIGNAL II]</b>
18:00 - 18:15	<b>Coffee Break</b>	
18:15 - 19:45	<p align="center"><b>Panel #2</b>  <b>Theme:</b> Energy Analytics  <b>Moderator</b>  <b>TBD</b>  <b>Panelists</b>  <b>TBD</b></p>	
20:00 – 20:30	<b>Conference Dinner</b>	

## Wednesday, March 12

09:00 - 10:00	<p align="center"><b>Keynote Speech</b>            Visible Light Communication Technology - Challenges and Potentials for Connected and Autonomous Mobility Systems  <b>Speaker</b>            Prof. Dr.-Ing. Oliver Michler, Technical University Dresden, Germany  <b>Chair</b>            Lasse Berntzen</p>	
10:00 - 10:15	<b>Break</b>	
10:15 - 11:45	<b>Session 7 [ENERGY II]</b>	<b>Session 16 [DMTKD]</b>
11:45 - 12:00	<b>Coffee break</b>	
12:00 - 13:00	<p align="center"><b>Keynote Speech</b>  <b>TBD</b></p>	
13:00 - 14:00	Lunch on your own	
14:00 - 15:45	<b>Session 8 [BIOTECHNO I]</b>	<b>Session 17 [BIOSIG]</b>
15:45 - 16:15	<b>Break</b>	

16:15 - 18:00	<b>Session 9 [BIOTECHNO II]</b>	<b>Session 18 [INTELLI]</b>
18:00 - 18:15	<b>Coffee Break</b>	
18:15 - 19:45	<b>Panel #3</b> <b>Theme:</b> Cognition, Intelligence and AI <b>Moderator</b> <b>TBD</b> <b>Panelists</b> <b>TBD</b>	

### Thursday, March 13

09:00 - 10:00	<b>Industrial Speech</b> Why Primes Have Been Laughed at as Beautiful but Useless Theory and now is Crucial in Digital Era: How RSA Works Internally? <b>Speaker</b> Jacek Plesnar, ABB, Poland <b>Chair</b> Dirceu Cavendish	
10:00 - 10:15	<b>Break</b>	
10:15 - 11:45	<b>Panel #4</b> <b>Theme:</b> Internet and Future Networking <b>Moderator</b> <b>TBD</b> <b>Panelists</b> <b>TBD</b>	
11:45 - 12:00	<b>Coffee Break</b>	
12:00 - 13:30	<b>Session 19 [WEB, ICN]</b>	
13:30 - 14:30	Lunch on your own	
14:30 - 16:00	<b>Session 20 [VISUAL, HUSO, BRAININFO]</b>	
16:00 - 16:15	<b>Coffee Break</b>	
16:15 - 17:45	<b>Session 21 [TBD]</b>	
17:45 - 18:00	<b>Farewell and Closing Session</b>	

### Recommended tourist objectives to be visited on your own:

#### Sintra

Sintra - National Palace  
 Pena Palace - São Pedro de Penaferrim

#### Lisbon

The Medieval Borough of Alfama  
 Lisbon's Borough of Belém  
 Tower of Belém  
 National Coaches Museum  
 Monastery of the Jerónimos (Hieronymite Monks, built in 1502)  
 Panoramic: Commerce Square, Downtown, Rossio Square, Avenue da Liberdade and Campo Grande

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### **Session 1 [DBKDA I]**

Session Chair: Malcolm Crowe

50030 An Enhanced Semantic Framework for Time-Constrained Clinical Decision-Making in Emergency Settings

Dizza Beimel, Ruppin Accademic Center, Israel

50039 An Evaluation of Reliability on Pair-wise Comparison Matrix in Fuzzy Data AHP

Shin-ichi Ohnishi, Hokkai-Gakuen University, Japan

50048 A Low-Code Approach for Creating Dynamic Map-Based Web Applications Using W3C Web Components

Andreas Schmidt, University of Applied Sciences, Karlsruhe & Karlsruhe Institute of Technology, Germany

### **Session 2 [IFSEAI I]: Interpretable Feature Selection for Explainable Artificial Intelligence**

Session Chairs: Basabi Chakraborty, Ashis Kumar Mandal

### **Session 3 [IFSEAI II]: Interpretable Feature Selection for Explainable Artificial Intelligence**

Session Chair: Basabi Chakraborty, Ashis Kumar Mandal

### **Session 4 [DBKDA II]**

Session Chair: Fritz Laux

50005 Exploring the Impact of Blockchain Technology in the Energy Industry

Steve B. Zhou, University of Houston Downtown, USA

50022 Evolving the automated search for clusters of similar trajectory groups

Schwenkreis, Friedemann, Baden-Wuerttemberg Cooperative State University Stuttgart, Germany

50025 On the Performance of Query Optimization Without Cost Functions and Very Simple Cardinality Estimation

Daniel Flachs, University of Mannheim, Germany

### **Session 5 [INTERNET]**

Session Chair: Anwar Ahmed Khan

40005 Design concepts to satisfy user data accessibility of IoT devices postulated by the EU Data Act

Felix Fischer, Hochschule Mittweida, Germany

40013 On the FullMesh Path Selection of Multipath TCP Video Streaming

Yosuke Komatsu, Kyushu Institute of Technology, Japan

Dirceu Galvao Cavendish Jr, Kyushu Institute of Technology, USA

### **Session 6 [ENERGY I]**

Session Chair: Wallis Alexander

30031 Power Grid Vulnerability and Secure Infrastructure for Energy Transmission

Vivian Sultan, California State University, Los Angeles, USA

30066 Potential for Wind Energy on the Fort Bidwell Reservation

Vivian Sultan, California State University, Los Angeles, USA

30034 On Zero-shot Learning in Neural State Estimation of Power Distribution Systems  
Aleksandr Berezin, OFFIS - Institute for Information Technology, Germany

**Session 7 [ENERGY II]**

Session Chair: Eric MSP Veith

30028 Analysis of Data from a 5G-Based Photovoltaic Plant Monitoring System  
Sofia Diniz de Carvalho, IFCE, Brazil  
Paulo Carvalho, UFC, Brazil

30038 Federated Learning for Distributed Load Forecasting: Addressing Data Imbalance in Prosumer Smart Grids  
Wallis Alexander, HAW Landshut, Deutschland

30050 Analyzing Electric Vehicle Charging Infrastructure Accessibility in Los Angeles, CA  
Vivian Sultan, California State University, Los Angeles, USA

**Session 8 [BIOTECHNO I]**

Session Chair: Ryo Kohsaka

70005 Cardiomyopathy Mechanisms: Meta-analysis of Expression Profiles for Z-disc-associated Genes Across Multiple Microarray Datasets  
Yulia Einav, Holon Institute of Technology, Israel

70018 A Computational Tool Supporting the Diagnosis of Age-Related Macular Degeneration  
Piotr Wąż, Medical University of Gdansk, Poland

**Session 9 [BIOTECHNO II]**

Session Chair: Yulia Einav

70016 A Four-Dimensional Mathematical Model for DNA/RNA Classification  
Dorota Bielińska-Wąż, Medical University of Gdansk, Poland

70014 Advancing Biomimicry with Consideration of ELSI - Biomimicry 4.0  
Ryo Kohsaka, The University of Tokyo, Japan

**Session 10 [ICAS I]**

Session Chair: Robert Richter

20009 Pipe Climbing Robot TAOYAKA VII  
Kazuyuki Ito, Hosei University, Japan  
Saya Eguchi, Hosei University, Japan

20014 Synthetic Data Generation for Autonomic Computing  
Catherine Saunders, Ulster University, UK

20016 Applying Q-Learning Agents to Distributed Graph Problems  
Jeffrey McCrea, University of Washington Bothell, USA

**Session 11 [ICAS II]**

Session Chair: Jeffrey McCrea

20020 Hybrid visual SLAM for multi-session precise localization: application to a coastal cliff in Normandy  
Philippe Martinet, INRIA Sophia Antipolis, France

20xxx Automated Coupling of Freight Wagons using a Road-rail Vehicle and Innovative Communication and Positioning Technologies  
Dipl.-Ing Robert Richter, Technical University Dresden, Germany

**Session 12 [VEHICULAR, ICWMC]**

Session Chair: Gil Gonçalves

30005 Context-Aware Collaborative Perception: Estimating Relevance Through Knowledge Representation  
Romain Tessier, ENSTA, France

20018 Comparative analysis of 130nm PDSOI and 28nm FDSOI technologies for 5G Power Amplifier Applications  
Marcos Lajovic Carneiro, Université de Bordeaux/Pontifica Universidad Catolica de Goias, France

**Session 13 [ISME]: Intelligent Systems for Real-Time Monitoring and Smart Environments**

Chairs: Rui Pinto, Gil Gonçalves, Udayanto Atmojo

**Session 14 [SIGNAL I]**

Session Chair: Irina Gladkova

60012 FMSTFnet: Feature-Modulation Spatio-Temporal Fusion Network for HDR Video Reconstruction  
Gangyi Jiang, Ningbo University, China

60016 InterGridNet: An Electric Network Frequency Approach for Audio Source Location Classification Using Convolutional Neural Networks

Konstantinos (Constantine) Kotropoulos, Aristotle University of Thessaloniki, Greece

60034 Calibration and Stereo via a Single Image of a Spherical Mirror

Nissim Barzilay, The Hebrew University, Israel

**Session 15 [SIGNAL II]**

Session Chair: Nissim Barzilay

60037 Efficient Implementation of CNN in Deep Learning by using Multirate Algorithms

Ping Wang, Jinqi-Micro, China

60041 High Resolution Ocean Thermal Fronts from Satellite Derived SST Imagery

Irina Gladkova, City College of New York, USA

**Session 16 [DMTKD]: Data Mining Tools for Knowledge Discovery**

Chair: Les Sztandera

**Session 17 [BIOSIG]: Advances in Biomedical Signal Processing**

Chairs: Ahmad Karfoul, Amar Kachenoura

**Session 18 [INTELLI]**

Session Chair: Hassan Hussein

60005 Situated Independent Learners in a Sequential Decision-Making Setting  
Fernanda Monteiro Elliott, Noyce Science Center - Grinnell College, USA

60016 Exploring the Role of User Experience in Enhancing IoT Applications for Smart Manufacturing: A Review  
Leigh Johnston, Ulster University, Northern Ireland, UK

60011 Achievement of Collision Avoidance and Formation for Nonlinear Multi-Ship Systems Using An Interval Type-2 Fuzzy Tracking Approach  
Wen-Jer Chang, National Taiwan Ocean University, Taiwan

**Session 19 [WEB, ICN]**

Session Chair: Andrei-Cristian Florea

40005 ORKGEx: Leveraging Language and Vision Models with Knowledge Graphs for Research Contribution Annotation  
Hassan Hussein, TIB, Germany

10002 A Comparative Analysis of High-Level vs. Low-Level Simulations for Dynamic MAC Protocols in Wireless  
Shama Siddiqui, DHA Suffa University, Pakistan

40008 How to Interpret an Economic Index? Generating Reports with Topic Sentiment Analysis  
Kazuhiro Seki, Konan University, Japan

10007 Delay Management Using Packet Fragmentation in Wireless Industrial Automation Systems  
Anwar Ahmed Khan, Millennium Institute of Technology & Entrepreneurship, Pakistan

**Session 20 [VISUAL, HUSO, BRAININFO]**

Session Chair: Leigh Johnston

70004 Exploring Natural Language Processing on Enhancing Learning in Immersive Applications  
Andrei-Cristian Florea, Universität of Bundeswehr München, Germany

80003 Countering the Ripple Effects: Strategies for Decoding and Disrupting Emotional Triggers in Online Rumor Trust  
Yi-Chen Lee, National Dong Hwa University, Taiwan

80013 Resilience and Node Impact Assessment in YouTube Commenter Networks Leveraging Focal Structure Analysis  
Nitin Agarwal, COSMOS Research Center, UA - Little Rock; University of California, Berkeley, USA

90044 Administration of neuropeptide QRFP into the lateral hypothalamus affects social memory in Wistar Rats [PRESENTATION]  
Olga Zagorác, University of Pécs Medical School, Institute of Physiology, Hungary